



APPENDIX 5

ADDITIONAL REQUIREMENTS FOR DEMILITARIZATION OF ITEMS LOCATED OUTSIDE THE UNITED STATES, PUERTO RICO, AMERICAN SAMOA, GUAM, THE TRUST TERRITORY OF THE PACIFIC ISLANDS AND THE VIRGIN ISLANDS

ITEM 1. SMALL ARMS WEAPONS AND PARTS (CATEGORY I - MUNITIONS LIST)

Demilitarization instructions are the same as those found in appendix 4, item 1.

ITEM 2. ARTILLERY AND PROJECTOR COMPONENTS (CATEGORY 11A - MUNITIONS LIST)

a. Components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 2.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or restoration to preclude use for intended purpose. This will be accomplished by cutting, burning, melting, mutilation, dumping at sea, crushing or shredding.

ITEM 3. COMPONENTS OF AMMUNITION, MILITARY EXPLOSIVES, SOLID AND LIQUID PROPELLANTS, AND INCENDIARY AGENTS (CATEGORIES III, IV AND V - MUNITIONS LIST)

a. Cartridge cases; expended cartridge and shell cases (except expended .22 caliber, 20 MM, 25MM, and 30MM); powder bags; bullets; jackets; cores and components therefore; ammunition belting and linking machines.

b. Key point to be demilitarized: Entire item.

c. Method and degree of demilitarization: As economically as practicable in accordance with existing environmental standards, safety and operational regulations to the point of assuring freedom from explosives, toxic or incendiary materials, smoke content and design hazard. Completeness of demilitarization of small arms ammunition cases can be determined by spot checks for hardness readings taken in the **extractor** groove, or not more than **one-eighth** inch from groove. Readings of 64 or less on Rockwell T15 scale indicates adequate demilitarization; ammunition belting and linking machines as

designated by the procuring Military Service/Defense Agency.

NOTE: Dummy small arms ammunition does not require demilitarization.

ITEM 4. LAUNCH VEHICLES, GUIDED MISSILES, BALLISTIC MISSILES AND ROCKETS (CATEGORY IV - **MUNITIONS LIST**)

a. Apparatus, devices, and materials for handling and all other components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 4.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction to preclude restoration, rehabilitation, rehabilitation or remanufacture as an item usable for its original function.

ITEM 5. VESSELS OF WAR AND SPECIAL NAVAL EQUIPMENT (CATEGORY VI - MUNITIONS LIST)

a. Landing craft, patrol vessels, auxiliary vessels and service craft; submarine storage batteries, marine and torpedo nets, harbor entrance magnetic, pressure and acoustic detection devices, controls and components **thereof**; and all components, parts, repair parts, accessories, attachments, firmware and software for the above and for those not included in appendix 4, item 5.

b. Key points to be demilitarized: As determined by the owning Military Service on a case-by-case basis.

c. Method and degree of demilitarization: Specific instructions and technical guidance for demilitarization of vessels and **equipment** will be furnished by the command **within the** Department of the Navy or the Department of the Army having procurement authority for the particular item involved.

ITEM 6. TANKS AND MILITARY VEHICLES [CATEGORY VII - MUNITIONS LIST]

a. Military trucks, **trailers**, hoists and skids specifically designed for carrying and handling ammunition, launch vehicles, guided missiles, ballistic missiles, rockets, torpedoes, bombs, mines, propellants, explosives and incendiary agents; military mobile repair shops specifically designed to service military equipment; and all specifically designed key components, accessories and attachments, including military bridging and deep water fording kits, tank track and tread and associated components for items in appendix 1, category VII of the Munitions List.

b. Key points to be demilitarized: Armament, armor, tank track and all track components on tanks, tracked combat vehicles and ordnance vehicles; on other items, as designated by procuring service.

c. Method and degree of demilitarization: Tanks of all types, military type tank recovery vehicles, gun carriers, armored cars and armored tracked vehicles will be demilitarized as outlined in appendix 4, item 6. For tank track and associated components - entire item. Additional demilitarization will be accomplished in the manner and degree prescribed by the procuring service.

ITEM 7. AIRCRAFT, SPACECRAFT, AND ASSOCIATED EQUIPMENT (CATEGORY VIII - MUNITIONS LIST)

a. Military aircraft and spacecraft engines as designated by the procuring service; spacecraft and missiles, equipment for launching, arresting and recovery if the equipment is specifically designed or modified for military use or for use with spacecraft (fried land-based arresting gear is not included in this category), power supplies and energy sources specifically designed for spacecraft.

b. Key points to be demilitarized

(1) TURBINE WHEEL AND SHAFT ASSEMBLY, TURBOJET AND TURBOPROP ENGINES: Excepted are the **turbine** wheel and shaft assembly of turboprop and turboshaft engines, components and accessories in common with aircraft authorized for commercial use. . . .

(2) RAM-JET AND PULSE-JET ENGINES: Ignition system, fuel system including the variable

area nozzles or fuel spray system, as applicable, and engine mounting fittings,

(3) ROCKET ENGINES: Thrust chamber, turbine pump, balanced material orifices, gas generator (when used) and engine mounting fittings.

(4) LAUNCHING, ARRESTING AND RECOVERY EQUIPMENT: See subparagraph c(4), below.

(5) SPACECRAFT POWER SUPPLIES AND ENERGY SOURCES: See subparagraph c(5), below.

c. Method and degree of demilitarization

(1) TURBOJET AND TURBOPROP ENGINES. Remove the turbine wheel and shaft assembly from the engine and cut a segment (two or more "fir trees") from turbine wheel bucket **splines**. Sever the shaft at the wheel end bearing point. When **multi**-stage turbines are involved, only the shaft and last stage turbine wheel need be demilitarized. In cases where it is not economically practicable or feasible to remove the turbine and shaft assembly from **the** engine, gain access to them by entering through shroud either by removal or cutting hole in shroud.

(2) RAM-JET AND PULSE-JET ENGINES: Completely destroy key points listed in subparagraph b(2) above.

(3) ROCKET ENGINES: Completely destroy key points listed in subparagraph b(3) above.

(4) LAUNCHING, ARRESTING AND RECOVERY **EQUIPMENT**: Specific instructions and technical guidance for aircraft launching equipment will be furnished by Commander, Naval Air Systems Command, Department of the Navy, Washington, DC 20361-4120, upon request. Specific instructions and technical guidance for other equipment will be furnished by the procuring Military Service.

(5) SPACECRAFT POWER SUPPLIES AND ENERGY SOURCES: Specific instructions and technical guidance will be furnished by the procuring Military Service/Defense Agency upon request.

ITEM 8. MILITARY TRAINING EQUIPMENT (CATEGORY IX - MUNITIONS LIST)

a. All simulation devices for items covered under the Munitions List and other components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 8.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or **restora-**

tion to preclude use for intended purpose. This will be accomplished by cutting, burning, melting, mutilation, dumping at sea, crushing or shredding.

ITEM 9. CLASSIFIED MATERIAL (CATEGORY XVII - MUNITIONS LIST)

Demilitarization instructions are the same as those found at appendix 4, item 9.

ITEM 10. PROTECTIVE PERSONNEL EQUIPMENT (CATEGORY X - MUNITIONS LIST)

a. Military helmets; military crash helmets; partial pressure suits; pressurized breathing equipment; protective clothing for handling guided missile fuel; liquid oxygen converters used for aircraft and missiles; protective apparel and equipment specifically designed for use with the articles in appendix 1, subparagraphs A through D, category X, Munitions List; key components, parts and accessories, attachment and associated equipment specifically designed for use with the aforementioned articles.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or restoration. This **will** be accomplished by cutting, burning and crushing.

ITEM 11. MILITARY AND SPACE ELECTRONICS (CATEGORY XI - MUNITIONS LIST)

a. Electronic equipment not included in appendix 4, item 11, **which** is assigned a military designation **or** is specifically designed, modified or configured for military application. This includes, but is not limited to, the following Sonic depth finders; underwater telephones; electromechanical beam forming **sonars** and elementary **sonobuoys**; navigation and air traffic control radar systems; guidance and object-locating equipment; armored coaxial cable capable of RF, optical, or high voltage power transmission; VHSIC semiconductor devices that are specifically designed for military applications and which have a high-speed signal and image processing capability with an operational parameter (gate-time-clock-frequency) of greater than 10-inch gates X hertz for an individual semiconductor device; **components**, parts, accessories, attachments, and associated equipment specifically designed or modified for use or currently used with

the equipment in this category, except for such items as are in normal commercial use.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Completely destroy the equipment beyond repair or restoration for original intended use.

ITEM 12. FIRE CONTROL, RANGE FINDER, OPTICAL AND GUIDANCE CONTROL EQUIPMENT (CATEGORY XII - MUNITIONS LIST)

a. Components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 12.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or restoration to preclude use for intended purpose. This will be accomplished by cutting, burning, melting, mutilation, dumping at sea, crushing or shredding.

ITEM 13. AUXILIARY MILITARY EQUIPMENT (CATEGORY XIII(a) and (c) through (g) MUNITIONS LIST)

a. Aerial and space cameras and special purpose military cameras and specialized processing equipment therefor; military **photointerpretation**, stereoscopic plotting and **photogrammetry** equipment; speech scramblers; privacy devices; self-contained diving and underwater breathing apparatus specifically designed or modified for a military purpose and components specifically designed or modified therefore; concealment and deception equipment, including, but not limited to, special paints, decoys, and simulators and components, parts and accessories specifically designed or modified therefore; energy conversion devices for producing electrical energy from nuclear, thermal, or solar energy, or from chemical reaction which are specifically designed or modified for military application; **chemiluminescent** compounds and solid state devices specifically designed or modified for military application.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Items will be destroyed by cutting, breaking, crushing, or burning as appropriate, to preclude restoration for further use as an item or for identification and association of related parts.



ITEM 14. TOXICOLOGICAL, BIOLOGICAL AND RADIOLOGICAL AGENTS AND EQUIPMENT (CATEGORY XIV --MUNITIONS LIST)

a. Components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 13.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or restoration to preclude use for intended purpose. This will be accomplished by cutting, burning, melting, mutilation, dumping at sea, crushing or shredding.

ITEM 15. NUCLEAR WEAPONS DESIGN AND TEST EQUIPMENT (CATEGORY XVI - **MUNITIONS LIST**)

Demilitarization instructions are the same as those found in appendix 4, item 14.

ITEM 16. SUBMERSIBLE VESSELS, OCEANOGRAPHIC AND ASSOCIATED EQUIPMENT (CATEGORY XX - MUNITIONS LIST)

a. Components, parts, repair parts, accessories, attachments, firmware and software not included in appendix 4, item 15.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Complete destruction beyond possible repair or restoration to preclude use for intended purpose. This will be accomplished by cutting, burning, melting, mutilation, dumping at sea, crushing or shredding.

ITEM 17. MISCELLANEOUS ARTICLES (CATEGORY XXI - MUNITIONS LIST)

a. Production equipment and special tooling designed specifically for the manufacture or test of key points of lethal items listed in this attachment and having no commercial or industrial application and not commercially available.

b. Key points to be demilitarized: Die blocks, jigs, fixtures, and other appurtenances or portions of the principal item specifically designed for the production of key points.

c. Method and degree of demilitarization: Key points will be broken or otherwise mutilated to the degree required to preclude repair or restoration for original intended use. **Demilitarization** of die **blocks** is required, any form of crushing or cutting (i.e., torch) is acceptable (in lieu of melting) if such action precludes repair or restoration for original intended use.

ITEM 18. TECHNICAL DATA (CATEGORY XVIII - MUNITIONS LIST)

a. Technical data relating to the items listed in this and appendices 1 and 4.

b. Key points to be demilitarized: Entire item.

c. Method and degree of demilitarization: Items will be shredded, pulped or burned to preclude further use as data.